

WE CLAIM:

1. In a device for damping pressure pulsations in electronically regulatable vehicle brake systems, comprising a housing (20) enclosing a damping chamber (44), at least one hydraulic connection (16, 18) opening into the damping chamber (44), and a throttle device (42), the improvement wherein the housing (20) and the throttle device (42) form a damping unit (14) that can be preassembled externally and can be anchored in a receptacle (12).
2. The device in accordance with claim 1, wherein that the housing (20) of the damping unit (14) comprises a hollow body (22) that is open to at least one side and an element (24) that essentially closes the opening of the hollow body (22), and wherein this element (24), on its outer circumference, has a formed-on fastening device (32) for anchoring the damping unit (14) in the receptacle (12) of a hydraulic block (10) of a vehicle brake system.
3. The device in accordance with claim 2, wherein the element (24) is embodied as cup-shaped, with an open first end and an essentially closed second end; and wherein the throttle device (42) is embodied in the form of at least one throttle bore (43) on the closed end of the element (24).
4. The device in accordance with claim 2, wherein the element (24) comprises a tubular body (60) which is open on both ends and into whose first end the hollow body (22) is inserted in portions; and wherein the throttle device (42) is embodied in the form of a throttle body (62) which is provided with at least one throttle bore (43) and is inserted into the end of the tubular body (60) opposite the hollow body (22).
5. The device in accordance with claim 3, wherein the at least one throttle bore (43) of the throttle device (42) is connected hydraulically parallel to a pressure limiting valve

(80), which has an opening cross section (91, 91a, 91b) that opens as a function of the pressure prevailing upstream of the throttle bore (43).

6. The device in accordance with claim 4, wherein the at least one throttle bore (43) of the throttle device (42) is connected hydraulically parallel to a pressure limiting valve (80), which has an opening cross section (91, 91a, 91b) that opens as a function of the pressure prevailing upstream of the throttle bore (43).

7. The device in accordance with claim 5, further comprising a valve member (92, 92a, 92b) which is acted upon by a spring element (94) for controlling the opening cross section (91, 91a, 91b) of the pressure limiting valve (80).

8. The device in accordance with claim 6, further comprising a valve member (92, 92a, 92b) which is acted upon by a spring element (94) for controlling the opening cross section (91, 91a, 91b) of the pressure limiting valve (80).

9. The device in accordance with claim 1, further comprising a filter (48) upstream of the throttle device (42).

10. The device in accordance with claim 9, wherein the filter (48) is embodied as an annular filter through which pressure fluid can flow radially and which has a filter holder (52) having radial openings (54) and has at least one filter cloth (49) covering the radial openings (54).

11. The device in accordance with claim 8, wherein the filter holder (52) of the filter (48) is produced by injection molding from plastic; and wherein the filter cloth (49) is spray-coated, in the peripheral region of the radial openings, with material comprising the filter holder (52).

12. The device in accordance with claim 1, further comprising an elastomer core (70) of silicone rubber inserted into the damping chamber (44).
13. The device in accordance with claim 10, wherein the elastomer core (70) has at least one axially extending through opening (74).
14. A hydraulic block for an electronically regulatable vehicle brake system, having at least one damping unit (14) defined by claim 1.